

# A2-Central Catalog

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July 1989

## A2-Central Developer Conference

### Last Chance to register

The scheduled dates for the only conference in the world just for Apple II developers—July 21-22—are rapidly approaching. You must register soon if you'd like to attend.

We already have registrations from well over 100 Apple II developers. Join people from companies like Roger Wagner Software, Stone Edge Technologies, Beagle Bros, Applied Engineering, SoftDisk, Quality Computers, Diversified Software Research, Call Apple, InCider, The Road Apple, Ariel Publishing Co., Raised Dot Computing, ProDev, Kitchen Sink Software, ByteWorks, Big Red Computers, So What Software, DAL Systems, The Western Design Center, Laser Computer Inc., and Apple itself.

Briefly, the conference starts Thursday evening, July 20, with a reception sponsored by Apple Computer. Starting at 9 Friday morning we'll have nine sessions in three tracks on creating application software with *DB Master*, *HyperStudio*, and *TimeOut UltraMacros*; integrating music and animation with your products; opening doors for the disabled; fonts, LaserWriters and the Apple II;

marketing tips for the small developer; and an overview of Apple II debugging products. Friday afternoon Apple will present an update on the Apple II and Bill Mensch of Western Design Center will speak on the philosophy and direction of the W65C microprocessor family. Friday evening's get together will be sponsored by Laser Computer.

Saturday morning we have five sessions in two tracks—Classic and GS/OS Development Environments and Languages; Classic and Apple IIgs Programming Considerations; and Future Outlook and Compatibility Guidelines for Laser Computers. Saturday afternoon you have your choice of longer, intensive sessions on programming *TimeOut* applications, an introduction to ToolBox programming, or Apple II/Macintosh parallel and cross development. Saturday evening we're all going to Royals stadium for a baseball game, courtesy of Western Design Center.

The conference fee of \$375 includes all food and accommodations in the dorms at Kansas City's Avila college—Thursday afternoon to Sunday morning. For cheap travel arrangements, call 800-432-0211.

**To register, call 913-469-6502.**

## The A2 Software Library

### ProDOS 8 software

#### The Graphic Exchange

Allows you to exchange virtually any Apple II graphic image from one format to another. Supported formats include single and double low-, high- and super-resolution, *PrintShop*, *PrintShop GS*, and *Newsroom*. Can also read *MacPaint* files on a Macintosh disk. Graphics can be examined, cropped, and scaled. See our May catalog for more information.

RW-004 The Graphic Exchange \$37.50

#### Fastdata Pro

Use this program to quickly scan our monthly disks, the full text of our back issues, the full text of Apple's tech notes, or your own files. Find the information you need fast. You can search, print, cut & paste any file type. Scroll up and down. Allows you to change disks and continue search.

FD-001 Fastdata Pro \$49.95

#### DB Master Professional

This is the most sophisticated data base management software available for the Apple II. Individual records can have up to 30 screens of text (or 200 fields or 2,000 characters). "Import rules" and "Export rules" allow a file to be related to as many as 10 other files. Reports can include up to 255 lines per record, including headers, subtotals, formatting, statistics, and much more. See April catalog for additional information.

SE-001 DB Master Professional \$245.00

### Apple IIgs software

#### HyperStudio

By Ken Higgins, Michael O'Keefe and Dave Klimas. A hypermedia authoring system for the Apple IIgs. You create "stacks" made up of "cards". Each card consists of a graphic background and can also hold text objects, graphic objects, sounds, and buttons. Buttons can be used to move to another card, stack, or program, to play a sound or video, to activate an animation, or to execute an external assembly language command you write yourself. Buttons can also keep test scores. See our June catalog for more information.

RW-005 HyperStudio \$99.00

#### SoftSwitch

Turns your Apple IIgs into a deskfull of Apple IIes you can use at the same time. Switch instantly between different ProDOS 8, DOS 3.3, or Pascal programs. Return to any of the programs exactly where you left off.

You can save suspended programs in mid-operation. Also allows you to copy and paste graphics screens between programs and you can "take snapshots" of any graphics or text screen. See Nov 88, page 4.75, for more. Requires 768K minimum IIgs. New un-protected version.

RW-003 SoftSwitch \$45.00

#### Diversi-Tune

By Bill Basham. This software turns your Apple IIgs into a MIDI synthesizer, recording studio, and hi-fi system. Use it to listen to pre-recorded *Diversi-Tune* music, or record your own MIDI instrument notes—then synthesize them, edit them, or mix them. See our July 1988 issue, page 4.45, for more information. See our software library listing below for song disks currently available.

DR-001 Diversi-Tune \$59.00

### Diversi-Tune Song Disks

Most of these disks include the words of the songs as well as the music. You can display the words on screen (with a bouncing ball) while the music plays if you like.

DR-101	Nathen Page Live Jazz Piano	\$24.95
DR-102	Gay Nineties	\$14.95
DR-103	American Folk/Patriotic	\$14.95
DR-104	Christmas Songs	\$14.95
DR-105	Jewish Songs	\$14.95
DR-106	Gospel Songs	\$14.95
DR-107	Nathen Page Studio Jazz	\$24.95
DR-108	Classical Organ Favorites	\$24.95
DR-109	Classical Harpsichord Duets	\$24.95
DR-110	Bill Basham—Rock Improvisations	\$24.95

### Development tools

#### Micol Advanced Basic—IIe/IIc

MS-002 Micol for the IIe/IIc \$89.00

#### Micol Advanced Basic—IIgs

MS-001 Micol for the IIgs \$99.00

#### Merlin 8/16

Four assemblers in one (DOS 3.3, ProDOS 8-bit, ProDOS 16-bit, GS/OS), disassembler, Nifty List debugger, disk and file utilities, and sample files.

RW-002 Merlin 8/16 \$99.00

### Programmer's Online

#### Companion for the IIgs

Programmer's Toolbox crib sheet in the form of a Classic Desk Accessory. Supports cut and paste with Apple Programmer's Workshop.

AW-033 IIgs Online Companion \$37.50



## The A2 Hardware Collection

### Yamaha DM-01 speakers

Add powered sound to your Ilgs! Bill Basham found a batch of these discontinued speakers on the surplus market. Yamaha discontinued them *because they lost money on them*. Basham says they sound better than Bose Roommates, which cost \$220 a pair and don't even have tone or volume controls. The Yamahas have tone and volume controls on each speaker. Covered by our standard "we'll make it right" guarantee. Includes all needed cables and adaptors.

DR-002 Yamaha Speakers U.S. orders only! \$129

### ModuNet network connectors

Build your own network. ModuNet connectors are replacements for the expensive connectors Apple sells to hook devices to its AppleTalk (LocalTalk) network. Not only do they cost less than Apple's connectors, these work with inexpensive telephone wire (not supplied) rather than expensive Apple cables. You need one connector for each computer and each printer on the network.

OE-001	8-pin for Ile, Ilgs, new Macs	\$34.95
OE-002	9-pin for old LaserWriters, old Macs	\$34.95

### Automatic incoming call router:

You can connect three devices to this switch. Incoming calls are first checked to see if the calling device is an autodial fax machine. If it is, the call is automatically routed to switchbox extension 1. All other incoming calls are routed to the primary switchbox line. However, either the caller or the receiver can transfer the call to switchbox extension 1 or 2 by simply pressing the 1 or 2 touchtone key on their phone. See our May catalog for more money-saving uses.

TF-500 Automatic Call Router \$395

## CIRTECH products

## Memory expansion cards

### Cards for the Ilgs memory slot

#### plusRAM GS-8

The GS-8 uses standard 1-meg chips and can be expanded up to 8 megabytes on one card—the maximum RAM capacity of the Ilgs. No other company builds a single card for the Ilgs memory expansion slot that can expand to 8 megabytes using standard RAM chips.

CIRTECH's custom LSI chips mean these cards use very little power and create very little heat. CIRTECH's GS-8 is the most-expandable, highest-quality Ilgs memory card available in the world at one of the world's lowest prices.

Not compatible with Applied Engineering's RamKeeper or the Ile retrofit Ilgs motherboard (won't fit inside Ile case).

### Memory card prices

Prices good through July 30, 1989

#### GS-8 and PR-16 cards:

GS-8 order no	memory supplied	\$	PR-16 order no
GS-8-1	1M	449	PR-16-1
GS-8-2	2M	649	PR-16-2
GS-8-3	3M	849	PR-16-3
GS-8-4	4M	1,049	PR-16-4
GS-8-5	5M	1,249	---
GS-8-6	6M	1,449	---
GS-8-7	7M	1,649	---
GS-8-8	8M	1,849	---

#### Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 1-meg RAM prices reflect a charge of \$25.00 per chip, installed and tested.

ROMdisk expansion cards		STAT-256 expansion cards	
(no chips)	ROM-256 \$89	64K	SD-256-1 \$159
(no chips)	ROM-512 \$89	128K	SD-256-2 \$189
		256K	SD-256-3 \$249

### Cards for Ile/Ilgs standard slots

#### plusRAM PR-16

CIRTECH's PR-16 memory card is a standard-slot memory card that can be used in the II-Plus, Ile, or Ilgs. It uses standard 1-meg RAM chips and can be expanded to 4 megabytes on one card (with forthcoming 4-meg chips it can be expanded to 16 megabytes). The card works as a RAMdisk. On a Ile, AppleWorks v1.3 and higher automatically expand their desktop into this type of card (1- or 2-megs only). We can supply a patch so AppleWorks will use this card on a Ilgs as well. Cards can be partitioned as RAMdisks for different operating systems using software supplied with the card by CIRTECH.

### StatDisk

CIRTECH's StatDisk is a completely new concept in storage technology. No other company makes anything like it. Your computer and software think the StatDisk is a standard-slot RAM card, such as CIRTECH's PR cards. What makes the StatDisk different is that what you store on it stays stored after your turn the power off—even after you pull the card out of the computer! A small battery (built right onto the card and automatically recharged when your computer is on) keeps your data safe for over two months. No other data storage medium is faster, quieter, or more reliable. No cords. Instant-on reliability (turn your computer on and boot into AppleWorks before your monitor warms up). See our October 1988 catalog for complete information.

StatDisk order no	memory supplied	\$
SD-1	128K	209
SD-2	256K	269
SD-3	384K	329
SD-4	512K	389
SD-5	640K	519
SD-6	768K	579
SD-7	896K	639
SD-8	1M	699

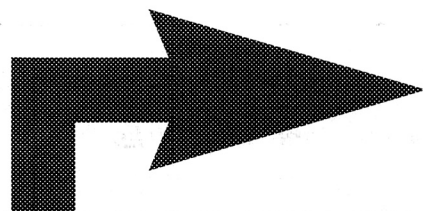
#### Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 32x8 low-power CMOS static RAM prices are \$15.00 per chip, installed and tested.

#### StatDisk piggyback expander

We've already included this card in the StatDisk prices shown above. This order number is for use only if you want to purchase the board separately

64K	SD-PIG	\$159
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Circitech's StatDisk was  
Nibble's  
Editor's Spotlight Selection  
April 1989, page 120

## SCSI products, fans

### SCSI interface card

CIRTECH's SCSI interface card brings the world of SCSI hard disks to your Apple Ilgs, Ile, or II-Plus. SCSI stands for "Small Computer System Interface". This is a standard, defined by the ANSI X3T9.2 specification, which devices such as the Seagate STxxxN family of hard drives adhere to.

CIRTECH's card comes with software that allows you to split SCSI hard disks for use with up to four operating systems--ProDOS (or GS/OS), DOS 3.3, Pascal 1.3, or Microsoft Softcard CP/M 2.20B or 2.23.

Unlike Apple's SCSI card, CIRTECH's card, with the addition of SCSI network software, can be used to share one or two hard disks among as many as six or seven computers (a maximum of eight devices total). Each computer has a private area on the disk.

CT-SC SCSI Interface Card \$99

### SCSI network software

CIRTECH's Multi-User SCSI software allows several computers to "share" up to two high-capacity storage devices. This provides a cost-effective way to attach several computers to a hard disk. Using a 64-megabyte Seagate ST277N hard disk assembly, for example, six computers could have "private" 10-megabyte hard disks for \$200-\$250 per computer.

The software splits the hard disk up into "user partitions". Only the computer that owns the partition can write to it. Partitions can also be "read-protected" at the users option. Operating system partitions can be created inside a user partition.

Each computer also has access to a "common" partition that can be used for read-only data and program storage. You'll need a CIRTECH SCSI card for each computer and one network package.

CT-NET SCSI Network Software \$99

### COOL-IT fans

Okay, you know you need a fan but you can't stand the noise. Neither could the guys at Cirtech. So they designed a pair of whisper quiet fans for the Ilgs and the Ile. CIRTECH's fans use high-quality bearings, special PBT fan blades and anti-vibration mounts. The Ilgs fan is three times quieter than Apple's own fan and uses just one-third the energy.

Fans install in about two minutes. Operate directly from the Apple power supply, you have no power cord to run. CIRTECH's fans install on the side of the power supply on the Ilgs and under the keyboard of the Ile. Each lowers the internal temperature of your computer by 10 degrees or more.

SPECIFICATIONS: Current 65 mA; power 0.78 W; noise 22 dB.

CT-FAN-GS Cool-It for the Ilgs	\$49
CT-FAN-E Cool-It for the Ile	\$49



# Subscriptions, Back Issues, Ordering Information

## Ordering Information

If you received this catalog in the envelope with our newsletter, there was also a one-sheet self-mailer in the envelope. Your name, address, expiration date, and account number are already imprinted on one side of the self-mailer—on the other side you'll find an order form. Please use this form to order stuff from us. When you fold and lick the form as shown, our address will be on the outside. Add a stamp and it's ready to mail. Please don't send us a photocopy of the form unless you remember to photocopy both sides.

If you received this catalog without a self-mailer, write your order on a plain sheet of paper and send it to:

**A2-Central**  
P.O. Box 11250  
Overland Park, KS 66207

## A2-Central subscriptions

The expiration date of your current subscription is shown on our self-mailer to the right of your name ("last issue").

We offer one-, two-, and three-year subscriptions to either our newsletter only or to a combination newsletter and monthly 3.5 disk. The disk includes an electronic copy of our newsletter for full-text searches, new public domain and shareware software and data files, and Apple system software updates.

	newsletter only	newsletter & 3.5 disk
1-year (12 issues)	S-1 \$28	D-1 \$84
2-year (24 issues)	S-2 \$54	D-2 \$162
3-year (36 issues)	S-3 \$78	D-3 \$234

Subscription prices include free AIR MAIL delivery anywhere on the face of the earth.

## Back issues

**A2-Central** (formerly **Open-Apple**) has been published monthly since January, 1985. Single back issues are \$2 each. Bound, indexed annual volumes are \$14.95. A full set of bound volumes and single issues for the current year is available for \$39.

The **Full-Text on Disk** version of our back issues is shipped on 3.5 disks and takes up about 4 megabytes of hard disk storage. Use with full-text search software.

### Open-Apple: Volumes 1-4

OA-001	\$14.95	Jan 1985—Jan 1986
OA-002	\$14.95	Feb 1986—Jan 1987
OA-003	\$14.95	Feb 1987—Jan 1988
OA-004	\$14.95	Feb 1988—Jan 1989

### Full Set Specials (every issue ever published)

FS-N	(volumes and singles)	\$39.00
FS-D	(full text on disk)	\$39.00

## Single monthly disks

### A2.ON.DISK

Our monthly 3.5 disks are available one-by-one as well as by subscription. Each disk features the full text of that month's newsletter and includes additional material.

order no	issue date	theme	price
A2-8902	Feb 89	Fonts	\$10
A2-8903	Mar 89	Tech Notes	\$10
A2-8904	Apr 89	misc	\$10
A2-8905	May 89	misc	\$10
A2-8906	June 89	misc	\$10
A2-8907	July 89	misc	\$10

## Posters

Our posters are 17-1/2 inches by 22-1/2 inches, white stock with black ink. On each poster we've printed an enlarged Rich Tennant cartoon.

1 poster \$7      2 posters \$10      3 posters \$12

PS-001 Christmas Lizard	from Dec 1985
PS-002 Genie	from June 1986
PS-003 User Group	from August 1987

## The A2 Book Library

### General Interest Books

TS-001	Bear: Computer Wimp	(see 8/88)	\$9.95
CB-001	Freiberger: The ILC. Your First Computer	(see 6/88)	\$9.95
ME-004	Freiberger: Fire in the Valley	(see 6/88)	\$11.95
HB-001	Gasse: The Third Apple	(see 12/88)	\$14.95
BC-001	Price: How to Write a Computer Manual	(see 3/89)	\$33.50
VP-001	Rose: West of Eden	(see 4/89)	\$19.95
HR-001	Sculley: Odyssey	(see 12/88)	\$10.95
AW-013	Snyder: In Search of Amazing Thing	(see 6/88)	\$10.95
IB-001	Weishaar: Your Best Interest	(see 6/88)	\$9.95
WG-001	White: Graphic Design for the Electronic Age		\$24.95

### AppleWorks Books

SY-008	Ericson: AppleWorks, Tips and Techs	(see 6/88)	\$19.95
DS-003	disk for this book	(see 8/88)	\$12.00
SY-007	Tymes: Mastering AppleWorks	(see 6/88)	\$21.95
ME-010	Matthews: AppleWorks Made Easy	(see 7/88)	\$18.95
CE-001	Thomas: ClassWorks	(see 8/88)	\$45.00
AW-027	Brown: Using AppleWorks GS		\$19.95

### Science/Electronics Books

TB-001	Engelsher: Interfacing & Digital Exps	(see 6/88)	\$15.50
VS-001	Vernier: Build a Better Mousetrap	(see 7/88)	\$24.95
TB-003	Pellino et al: Science On Your Apple	(see 6/88)	\$14.95
TB-004	Horn: Smart Apples	(see 6/88)	\$12.95

### Printers

#### Technical References

CP-001	East: Handbook of Printer Commands (3 vols)		\$89.95
AW-008	Apple: ImageWriter II Technical Reference		\$19.95
AW-025	Apple: ImageWriter I/Q Technical Reference		\$22.95

#### PostScript

AW-007	Adobe: PostScript Lang Tutorial/Cookbook		\$16.95
AW-005	Adobe: PostScript Lang Program Design		\$22.95
AW-009	Adobe: PostScript Lang Reference Manual		\$22.95
AW-028	Apple: LaserWriter Reference		\$19.95
AW-029	Roth: Real World PostScript		\$22.95

#### Troubleshooting and Repair

HS-004	SAMS Computerfacts: ImageWriter I		\$24.95
HS-008	SAMS Computerfacts: ImageWriter II		\$24.95

### Working with Classic Apples

#### Applesoft

AW-010	Apple: Applesoft Tutorial (w/disk)		\$29.95
AW-021	Apple: Applesoft Programmer's Reference		\$22.95
SF-001	Miller: Mastering Applesoft Graphics	(see 6/89)	\$18.95
AW-015	Dwyer: BASIC and the Personal Computer		\$16.95
ME-002	Poole: II-Plus/IIc User's Guide, 3rd Ed		\$18.95
ME-003	Poole: IIc User's Guide		\$18.95
HS-007	Irwin: Apple Programmer's Handbook		\$22.95

#### DOS 3.3

TB-007	Weishaar/Kersey: The DOSTalk Scrapbook		\$14.95
DS-001	disk for this book		\$10.00

#### ProDOS 8

AW-024	Apple: BASIC Programming with ProDOS (w/disk)		\$29.95
AW-023	Apple: ProDOS 8 Tech Ref (w/disk)		\$29.95
QS-001	Worth: Beneath Apple ProDOS	(see 8/88)	\$19.95
TB-006	Doms/Weishaar: ProDOS Inside and Out	(see 6/88)	\$16.95
DS-002	disk for this book		\$10.00

#### 6502 Assembly Language

AW-012	Finley/Myers: Asm Lang for Applesoft Prgmmer		\$18.95
RW-001	Wagner: Assembly Lines: The Book	(see 6/88)	\$19.95
DS-004	disk for this book		\$15.95
ME-007	Leventhal: 6502 Subroutines		\$19.95
ME-008	Leventhal: 6502 Asmboutines		\$19.95

#### Technical References

AW-003	Apple: Apple IIc Technical Reference		\$24.95
AW-004	Apple: Apple IIc Technical Reference		\$24.95
SS-001	Little: Inside the Apple IIc		\$19.95
SY-003	Campbell: The RS-232 Solution	(see 6/88)	\$18.95

#### Troubleshooting and Repair

HS-001	SAMS Computerfacts: II, II-Plus		\$24.95
HS-002	SAMS Computerfacts: IIc		\$24.95
HS-005	SAMS Computerfacts: IIc		\$39.95
HS-003	SAMS Computerfacts: Disk II		\$24.95
HS-006	Brenner: Apple II Troubleshooting/Repair Guide		\$19.95

### Working with the Apple IIgs

#### Toolbox Programming

AW-011	Apple: Programmer's Intro to IIgs (w/disk)		\$32.95
AW-019	Apple: Apple IIgs Toolbox Reference, Vol 1		\$26.95
AW-006	Apple: Apple IIgs Toolbox Reference, Vol 2		\$26.95
CB-005	Gookin/Davis: Mastering the IIgs Toolbox		\$19.95
CB-007	Gookin/Davis: Adv Prog Tech for IIgs Toolbox		\$19.95

#### GS/OS, ProDOS 16

AW-020	Apple: ProDOS 16 Reference (w/disk)		\$29.95
AW-026	Little: Exploring Apple GS/OS and ProDOS 8		\$21.95
DS-006	disk for this book (3.5)		\$15.00

#### 65816 Assembly Language

CB-002	Wagner: IIgs Machine Lang for Beginners		\$19.95
DS-005	disk for this book (3.5)		\$15.95
SS-005	Lichty/Eyes: Programming the IIgs in Asm Lang		\$29.95
DS-008	disk for this book (3.5)		\$20.00
HS-010	Andrews: Prmgm IIgs in C and Asm Lang		\$18.95
SS-003	Eyes/Lichty: Programming the 65816		\$24.95
BB-001	Scanlon: Apple IIgs Asm Lang Programming		\$24.95

#### Technical References

AW-018	Apple: Technical Introduction to the Apple IIgs		\$9.95
AW-022	Apple: Apple IIgs Firmware Reference		\$24.95
AW-002	Apple: Apple IIgs Hardware Reference		\$24.95
AW-001	Apple: Apple Numerics Reference (new edition)		\$29.95
AW-014	Apple: Human Interface Guidelines		\$14.95
AW-017	Little: Exploring the Apple IIgs	(see 6/88)	\$22.95
DS-007	disk for this book (3.5)		\$20.00
ME-001	Fischer: Apple IIgs Tech Ref	(see 6/88)	\$19.95



# A2-Central Catalog

Get the books, software, and equipment you need from the warmth of your own computer room. **No handling fees** or extra charges for surface shipping, even though we ship within 24 hours. To order, use the self-mailer that was in the envelope with your newsletter.

August 1989

## A2-Central Monthly Disks

**Our monthly disks are a hit!** Over 10 per cent of our subscribers now get the disk along with their newsletter. Subscribers write us notes like, *"The disk subscription is by far one of the best software values available today. I'm always able to put the contents to productive use (Arthur Jones, Oklahoma City).*

### \$4.67 a disk

The least expensive way to get the disks is to buy a 1-, 2-, or 3-year subscription. For example, with a one year subscription at \$84, you get our regular \$28/yr newsletter plus twelve 3.5 disks for less than \$4.67 each. This is less than most user groups charge for 3.5 disks of the month, which don't even contain proprietary information.

### \$4.75 a disk

You can get our disks for \$4.75 each by converting your current newsletter subscription to a newsletter/disk subscription. Figure out how many disks you'll get between the first one you want and the month your subscription expires and send us \$4.75 a disk.

### \$5.00 a disk

At the end of the year, we'll offer a complete set of twelve disks for \$60. Since we don't have twelve disks yet, don't order this yet.

### \$6.00 a disk

You can buy our disks in quarterly sets for \$18 a set. We currently have two sets available: **A2-89S1** (F/M/A) and **A2-89S2** (M/J/J).

### \$10.00 a disk

We don't recommend you buy them this way, but if you insist, we'll still sell you any single disk for \$10.

## Disk descriptions

All disks contain the latest versions of ProDOS 8 and Basic.system under license from Apple, as well as a several standard utility programs. The utilities include text readers for both blind and sighted users, a text file splitter, and, on later disks, a program selector called *Windows*. None of these files are shown in the following listings. Some other files that are actually on the disks (for example, documentation files for listed programs) aren't shown here (no room). In other words, there are many more files on each disk than what we show here.

### Directory: /A2.ON.DISK.8902/

Filename	Blocks	Type	Description
INTRO.FEB.89	42	TXT	Disk introduction
V5.N01.FEB.89	129	TXT	A2-Central newsletter, Feb '89
FONT.S	4	DIR	Directory of this month's fonts
BOSTONII.9	7	FON	also 10, 12, 18, 20, and 24
CHICAGO.9	6	FON	also 12, 14, and 24
PALATINI.10	7	FON	also 12, 14, 18, and 24
ART.DECO.9	5	FON	also 12, 18, 24, 36 and 48
CALLIGRAPHY.12	5	FON	also 18, 24, 36 and 48
FONT.PROGRAMS	1	DIR	Font utility programs
FONTDOCTOR	105	S16	Font editor
FONTINVERT	67	S16	Turns fonts upside-down
TYPEFACE	73	S16	Used to view fonts
CHG.FONT.FILTP	7	BAS	Convert Publish-It! to FON & back

CHG.FONT.DOCS	5	TXT	Documentation for CHG.FONT.FILTP
FONT.SCANNER	11	BAS	Scans for fonts, shows header info
FTRX.TO.MSCRI	1	DIR	Fontrix to Multiscribe IIe converter
FONT.REFERENCES	1	DIR	Font reference material
VENICE.14.SRC	56	TXT	Example of font source code
A2.FONT.DIR	39	ADB	Directory of fonts on GENie
A2.FONT.TECH	220	ADB	Technical information on A2 Fonts
A2.FONT.DOC	52	TXT	Technical specifications on fonts
A2.FONT.PIC	22	PNT	Illustration of font anatomy
OTHER.PROGS	1	DIR	Something besides fonts in here!
SUPERPATCH.3.1	64	BAS	A set of patches for Appleworks
SMARTPORT.SCSI	14	BAS	Modified A2-Central SmartPort prog
MISC.GOODIES	1	DIR	Something special
TAX.FORMS.88	27	ASP	Tax templates for 1988 taxes

### Directory: /A2.ON.DISK.8903/

Filename	Blocks	Type	Description
INTRO.MAR.89	4	TXT	Disk introduction
V5.N02.MAR.89	117	TXT	March '89 issue of A2-Central
BLU.2.28	45	SYS	Floyd Zink's Binary II packer
TECH.NOTES	2	DIR	Apple's 1/89 technical note suite
PROGRAMS	1	DIR	Interesting programs in here
LAM.GS	3	BAS	LAM routine modified for IIgs
TYPE.CHANGER	19	BAS	Program to change file types

### Directory: /A2.ON.DISK.8904/

Filename	Blocks	Type	Description
INTRO.APR.89	45	TXT	Disk introduction
V5.N03.APR.89	117	TXT	April '89 issue of A2-Central
PROGRAMS	1	DIR	Useful programs in here
MOUSETEXT.DEMO	3	AWP	Put Mousetext in your AWP files
BACK.REST	13	S16	Backs up and restores GS CP settings
COLUMNIST	21	SYS	Puts AWP files into columns
CYBERFIND.1.1	11	BAS	CyberAIDS & Festering Hate detector
INST.ROM.CDA	1	\$B7	Installs built-in IIgs CDA's
CLOCK.V1.1	3	CDA	Puts clock on IIgs text screen
DSR.STUFF	1	DIR	Diversi-Cache, Copy, Hack, & Key
FONT.EDITOR	2	DIR	A font editor for 8-bit machines!
FREEWRIITER	1	DIR	Public Domain word processor
SYSTEM.SETUP	1	DIR	Software setup for ProDOS 8
MICOL.DEMO	1	DIR	Demo of IIgs Micol Advanced Basic
MISC.GOODIES	1	DIR	Clever and fun stuff in here
NATIONAL.DEBT	24	ASP	Solve the federal deficit game
MELTDOWN	3	NDA	Revised all-time classic IIgs NDA

### Directory: /A2.ON.DISK.8905/

Filename	Blocks	Type	Description
INTRO.MAY.89	34	TXT	Disk introduction
V5.N04.MAY.89	136	TXT	May '89 issue of A2-Central
LASER.CONFERENCE	41	TXT	Laser Computer conference transcript

continued on next page

PROGRAMS	1	DIR	Yes, exactly.	NDA.MASTER	1	DIR	Allows on-the-fly DA installation
CHAMELEON	1	DIR	Universal file transfer program	DA.INSTALLER	1	DIR	Alternative for on-the-fly DA's
DICED	1	DIR	IIGS Finder icon editor	FRIGID.BOOT	1	DIR	Special reboot for IIGs
LABEL.PRO	1	DIR	A ProDOS disk labeler	FREETERM.GS	1	DIR	Freeware term program for IIGs
MEMBAR	1	DIR	IIGs New Desk Accessory	PTERM.START	1	DIR	Special program for ProTerm owners
NIFTY.LIST	1	DIR	IIGs Classic Desk Accessory	MISC.GOODIES	1	DIR	Fun stuff in here
SEG.PR.ED	1	DIR	Appleworks custom printer utility	MASTER.MIND	6	BAS	Mousetext version of Mastermind
SHRINKIT	1	DIR	A new archiving utility!	UNO	27	BAS	Uno game for all machines
SHRINKIT	72	SYS	Actual Shrinkit system file	SOLITAIRE	9	BAS	Interesting variation of solitaire
NUFX.DOCS	87	TXT	Description of Shrinkit archives	DISCLAIMER	10	TXT	The Universal Disclaimer
SUPERCALC.PATCH	1	DIR	Patch to run Supercalc 3A on IIGs				
MISC.GOODIES	1	DIR	Diverting and amusing stuff in here				
ANIM.WATCH	3	\$B6	Animates IIGs "watch" icon				
SC.DECISIONS.88	21	TXT	1988 Supreme Court decisions				
GOVT.BILLS	5	TXT	How a bill becomes a law				
LIFELIKE	2	DIR					
LIFELIKE.SYSTEM	45	SYS	Extremely expanded version of Life				
LIFE34	1	\$F7	1 of 10 Data files for Life				

## Directory: /A2.ON.DISK.8906/

Filename	Blocks	Type	Description
INTRO.JUNE.89	39	TXT	Disk introduction
V5.N05.JUNE.89	130	TXT	June '89 issue of A2-Central
LETTERS	14	TXT	Letters to Dean
RTC.MERRITT.TXT	44	TXT	Conference on System Disk 5.0
PROGRAMS	2	DIR	Take a deep breath...
ECP8.DOCS	1	DIR	Full ECP 8 documentation in here
ECP8.MAIN	1	DIR	Extended Command Processor 8-bit
CMDS	1	DIR	Commands for ECP 8
ECP8.SOURCE	1	DIR	Source code for ECP 8
ECP8.BONUS	3	DIR	ECP 8 bonus programs by M. Davis
CDA.MASTER	1	DIR	Allows greater control over CDA's

## Directory: /A2.ON.DISK.8907/

Filename	Blocks	Type	Description
INTRO.JUL.89		TXT	Disk introduction
V5.N06.JUL.89	117	TXT	July 1989 issue of A2-Central
A2.SAMPLER	85	TXT	Sample of GENIE A2 bulletin boards
RTC.WAGNER.TXT	91	TXT	Roger Wagner conference transcript
PROGRAMS	2	DIR	New programs in here
COLON.DEMO	3	BAS	Demo of Applesoft colon use
KEYTIME	3	BAS	Demo on reading time between keys
SCSI.PATCHER	4	BAS	Glen Bredon's patch for SCSI driver
ADB.FIXER	1	DIR	Appleworks Data Base repair kit
FORMATTER	1	DIR	3.5 disk formatter for IIGs
PWMACROS	1	DIR	Macro set for IIGs ORCA/M Assembler
SMARTBOOT	1	DIR	Boots any smartport device
MISC.GOODIES	1	DIR	Here comes the fun
MODEM.NOISE.FIX	17	TXT	Device to eliminate line noise
FRACTAL.GS	1	DIR	GS Mandelbrot graphics generator
EAMON.GAMES	1	DIR	A new version of an old classic
SHRINKIT	73	SYS	Use this to prepare Eamon disks
EAMON.MAS.SDK	144	\$E0	New, advanced Eamon Master disk
EAMON.124.SDK	125	\$E0	Assault on Dolni Keep game

# The A2 Software Library

## ProDOS 8 software

### The Graphic Exchange

Allows you to exchange virtually any Apple II graphic image from one format to another. Supported formats include single and double low-, high- and super-resolution, *PrintShop*, *PrintShop GS*, and *Newsroom*. Can also read *MacPaint* files on a Macintosh disk. Graphics can be examined, cropped, and scaled. See our May catalog for more information.

RW-004 The Graphic Exchange \$37.50

### Fastdata Pro

Use this program to quickly scan our monthly disks, the full text of our back issues, the full text of Apple's tech notes, or your own files. Find the information you need fast. You can search, print, cut & paste any file type. Scroll up and down. Allows you to change disks and continue search.

FD-001 Fastdata Pro \$49.95

### DB Master Professional

This is the most sophisticated data base management software available for the Apple II. Individual records can have up to 30 screens of text (or 200 fields or 2,000 characters). "Import rules" and "Export rules" allow a file to be related to as many as 10 other files. Reports can include up to 255 lines per record, including headers, subtotals, formatting, statistics, and much more. See April catalog for additional information.

SE-001 DB Master Professional \$245.00

## Apple IIGs software

### HyperStudio

By Ken Higgins, Michael O'Keefe and Dave Klimas. A hypermedia authoring system for the Apple IIGs. You create "stacks" made up of "cards". Each card consists of a graphic background and can also hold text objects, graphic objects, sounds, and buttons. Buttons can be used to move to another card, stack, or program, to play a sound or video, to activate an animation, or to execute an external assembly language command you write yourself. Buttons can also keep test scores. See our June catalog for more information.

RW-005 HyperStudio \$99.00

### SoftSwitch

Turns your Apple IIGs into a deskfull of Apple IIGs you can use at the same time. Switch instantly between different ProDOS 8, DOS 3.3, or Pascal programs. Return to any of the programs exactly where you left off.

You can save suspended programs in mid-operation. Also allows you to copy and paste graphics screens between programs and you can "take snapshots" of any graphics or text screen. See Nov 88, page 4.75, for more. Requires 768K minimum IIGs. New un-protected version.

RW-003 SoftSwitch \$45.00

### Diversi-Tune

By Bill Basham. This software turns your Apple IIGs into a MIDI synthesizer, recording studio, and hi-fi system. Use it to listen to pre-recorded *Diversi-Tune* music, or record your own MIDI instrument notes--then synthesize them, edit them, or mix them. See our July 1988 issue, page 4.45, for more information. See our software library listing below for song disks currently available.

DR-001 Diversi-Tune \$59.00

## Diversi-Tune Song Disks

Most of these disks include the words of the songs as well as the music. You can display the words on screen (with a bouncing ball) while the music plays if you like.

DR-101	Nathen Page Live Jazz Piano	\$24.95
DR-102	Gay Nineties	\$14.95
DR-103	American Folk/Patriotic	\$14.95
DR-104	Christmas Songs	\$14.95
DR-105	Jewish Songs	\$14.95
DR-106	Gospel Songs	\$14.95
DR-107	Nathen Page Studio Jazz	\$24.95
DR-108	Classical Organ Favorites	\$24.95
DR-109	Classical Harpsichord Duets	\$24.95
DR-110	Bill Basham--Rock Improvisations	\$24.95

## Development tools

### Micol Advanced Basic--Ile/IIC

MS-002 Micol for the Ile/IIC \$89.00

### Micol Advanced Basic--IIGs

MS-001 Micol for the IIGs \$99.00

### Merlin 8/16

Four assemblers in one (DOS 3.3, ProDOS 8-bit, ProDOS 16-bit, GS/OS), disassembler, Nifty List debugger, disk and file utilities, and sample files.

RW-002 Merlin 8/16 \$99.00

## Programmer's Online Companion for the IIGs

Programmer's Toolbox crib sheet in the form of a Classic Desk Accessory. Supports cut and paste with Apple Programmer's Workshop.

AW-033 IIGs Online Companion \$37.50

# The A2 Hardware Collection

## Yamaha DM-01 speakers

Add powered sound to your IIGs! Bill Basham found a batch of these discontinued speakers on the surplus market. Yamaha discontinued them *because they lost money on them*. Basham says they sound better than Bose Roommates, which cost \$220 a pair and don't even have tone or volume controls. The Yamahas have tone and volume controls on each speaker. Covered by our standard "we'll make it right" guarantee. Includes all needed cables and adaptors.

DR-002 Yamaha Speakers U.S. orders only! \$129

## ModuNet network connectors

Build your own network. ModuNet connectors are replacements for the expensive connectors Apple sells to hook devices to its AppleTalk (LocalTalk) network. Not only do they cost less than Apple's connectors, these work with inexpensive telephone wire (not supplied) rather than expensive Apple cables. You need one connector for each computer and each printer on the network.

OE-001 8-pin for IIGs, new Macs \$34.95  
OE-002 9-pin for old LaserWriters, old Macs \$34.95

## Automatic incoming call router:

You can connect three devices to this switch. Incoming calls are first checked to see if the calling device is an autodial fax machine. If it is, the call is automatically routed to switchbox extension 1. All other incoming calls are routed to the primary switchbox line. However, either the caller or the receiver can transfer the call to switchbox extension 1 or 2 by simply pressing the 1 or 2 touchtone key on their phone. See our May catalog for more money-saving uses.

TF-500 Automatic Call Router \$395

## CIRTECH products

# Memory expansion cards

## Cards for the IIGs memory slot

### plusRAM GS-8

The GS-8 uses standard 1-meg chips and can be expanded up to 8 megabytes on one card—the maximum RAM capacity of the IIGs. No other company builds a single card for the IIGs memory expansion slot that can expand to 8 megabytes using standard RAM chips.

CIRTECH's custom LSI chips mean these cards use very little power and create very little heat. CIRTECH's GS-8 is the most-expandable, highest-quality IIGs memory card available in the world at one of the world's lowest prices.

Not compatible with Applied Engineering's RamKeeper or the IIG retrofit IIGs motherboard (won't fit inside IIG case).

## Memory card prices

Prices good through August 30, 1989

### GS-8 and PR-16 cards:

GS-8 order no	memory supplied	\$	PR-16 order no
GS-8-1	1M	449	PR-16-1
GS-8-2	2M	625	PR-16-2
GS-8-3	3M	801	PR-16-3
GS-8-4	4M	977	PR-16-4
GS-8-5	5M	1,153	---
GS-8-6	6M	1,329	---
GS-8-7	7M	1,505	---
GS-8-8	8M	1,681	---

### Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 1-meg RAM prices reflect a charge of \$22.00 per chip, installed and tested.

ROMdisk expansion cards		STAT-256 expansion cards	
(no chips)	ROM-256 \$89	64K	SD-256-1 \$159
(no chips)	ROM-512 \$89	128K	SD-256-2 \$189
		256K	SD-256-3 \$249

## Cards for IIG/IIGs standard slots

### plusRAM PR-16

CIRTECH's PR-16 memory card is a standard-slot memory card that can be used in the IIG-Plus, IIG, or IIGs. It uses standard 1-meg RAM chips and can be expanded to 4 megabytes on one card (with forthcoming 4-meg chips it can be expanded to 16 megabytes). The card works as a RAMdisk. On a IIG, AppleWorks v1.3 and higher automatically expand their desktop into this type of card (1- or 2-megs only). We can supply a patch so AppleWorks will use this card on a IIGs as well. Cards can be partitioned as RAMdisks for different operating systems using software supplied with the card by CIRTECH.

StatDisk order no	memory supplied	\$
SD-1	128K	209
SD-2	256K	269
SD-3	384K	329
SD-4	512K	389
SD-5	640K	519
SD-6	768K	579
SD-7	896K	639
SD-8	1M	699

### Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 32x8 low-power CMOS static RAM prices are \$15.00 per chip, installed and tested.

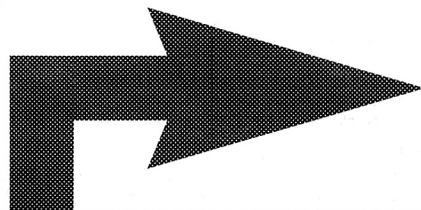
### StatDisk piggyback expander

We've already included this card in the StatDisk prices shown above. This order number is for use only if you want to purchase the board separately

64K SD-PTG \$159

## StatDisk

CIRTECH's StatDisk is a completely new concept in storage technology. No other company makes anything like it. Your computer and software think the StatDisk is a standard-slot RAM card, such as CIRTECH's PR cards. What makes the StatDisk different is that what you store on it stays stored after your turn the power off—even after you pull the card out of the computer! A small battery (built right onto the card and automatically recharged when your computer is on) keeps your data safe for over two months. No other data storage medium is faster, quieter, or more reliable. No cords. Instant-on reliability (turn your computer on and boot into AppleWorks before your monitor warms up). See our October 1988 catalog for complete information.



**Cirtech's StatDisk was  
Nibble's  
Editor's Spotlight Selection  
April 1989, page 120**

## SCSI products, fans

### SCSI interface card

CIRTECH's SCSI interface card brings the world of SCSI hard disks to your Apple IIGs, IIG, or IIG-Plus. SCSI stands for "Small Computer System Interface". This is a standard, defined by the ANSI X3T9.2 specification, which devices such as the Seagate STxxxN family of hard drives adhere to.

CIRTECH's card comes with software that allows you to split SCSI hard disks for use with up to four operating systems—ProDOS (or GS/OS), DOS 3.3, Pascal 1.3, or Microsoft Softcard C/P/M 2.20B or 2.23.

Unlike Apple's SCSI card, CIRTECH's card, with the addition of SCSI network software, can be used to share one or two hard disks among as many as six or seven computers (a maximum of eight devices total). Each computer has a private area on the disk.

CT-SC SCSI Interface Card \$99

### SCSI network software

CIRTECH's Multi-User SCSI software allows several computers to "share" up to two high-capacity storage devices. This provides a cost-effective way to attach several computers to a hard disk. Using a 64-megabyte Seagate ST277N hard disk assembly, for example, six computers could have "private" 10-megabyte hard disks for \$200-\$250 per computer.

The software splits the hard disk up into "user partitions". Only the computer that owns the partition can write to it. Partitions can also be "read-protected" at the users option. Operating system partitions can be created inside a user partition.

Each computer also has access to a "common" partition that can be used for read-only data and program storage. You'll need a CIRTECH SCSI card for each computer and one network package.

CT-NET SCSI Network Software \$99

### COOL-IT fans

Okay, you know you need a fan but you can't stand the noise. Neither could the guys at Cirtech. So they designed a pair of whisper quiet fans for the IIGs and the IIG. CIRTECH's fans use high-quality bearings, special PBT fan blades and anti-vibration mounts. The IIGs fan is three times quieter than Apple's own fan and uses just one-third the energy.

Fans install in about two minutes. Operate directly from the Apple power supply, you have no power cord to run. CIRTECH's fans install on the side of the power supply on the IIGs and under the keyboard of the IIG. Each lowers the internal temperature of your computer by 10 degrees or more.

SPECIFICATIONS: Current 65 mA; power 0.78 W; noise 22 dB.

CT-FAN-GS Cool-It for the IIGs \$49  
CT-FAN-E Cool-It for the IIG \$49



# Subscriptions, Back Issues, Ordering Information

## Ordering Information

If you received this catalog in the envelope with our newsletter, there was also a one-sheet self-mailer in the envelope. Your name, address, expiration date, and account number are already imprinted on one side of the self-mailer—on the other side you'll find an order form. Please use this form to order stuff from us. When you fold and lick the form as shown, our address will be on the outside. Add a stamp and it's ready to mail. Please don't send us a photocopy of the form unless you remember to photocopy both sides.

If you received this catalog without a self-mailer, write your order on a plain sheet of paper and send it to:

**A2-Central**  
**P.O. Box 11250**  
**Overland Park, KS 66207**

## A2-Central subscriptions

The expiration date of your current subscription is shown on our self-mailer to the right of your name ("last issue").

We offer one-, two-, and three-year subscriptions to either our newsletter only or to a combination newsletter and monthly 3.5 disk. The disk includes an electronic copy of our newsletter for full-text searches, new public domain and shareware software and data files, and Apple system software updates.

	newsletter only	newsletter & 3.5 disk
1-year (12 issues)	S-1 \$28	D-1 \$84
2-year (24 issues)	S-2 \$54	D-2 \$162
3-year (36 issues)	S-3 \$78	D-3 \$234

Subscription prices include free AIR MAIL delivery anywhere on the face of the earth.

## Back issues

**A2-Central** (formerly **Open-Apple**) has been published monthly since January, 1985. Single back issues are \$2 each. Bound, indexed annual volumes are \$14.95. A full set of bound volumes and single issues for the current year is available for \$39.

The **Full-Text on Disk** version of our back issues is shipped on 3.5 disks and takes up about 4 megabytes of hard disk storage. Use with full-text search software.

### Open-Apple: Volumes 1-4

OA-001	\$14.95	Jan 1985—Jan 1986
OA-002	\$14.95	Feb 1986—Jan 1987
OA-003	\$14.95	Feb 1987—Jan 1988
OA-004	\$14.95	Feb 1988—Jan 1989

### Full Set Specials (every issue ever published)

FS-N	(volumes and singles)	\$39.00
FS-D	(full text on disk)	\$39.00

## The A2 Book Library

### General Interest Books

TS-001	Bear: Computer Wimp	(see 8/88)	\$9.95
CB-001	Freiberger: The IIC, Your First Computer	(see 6/88)	\$9.95
MB-004	Freiberger: Fire in the Valley	(see 6/88)	\$11.95
HB-001	Gassee: The Third Apple	(see 12/88)	\$14.95
BC-001	Price: How to Write a Computer Manual	(see 3/89)	\$33.50
VP-001	Rose: West of Eden	(see 4/89)	\$19.95
HR-001	Sculley: Odyssey	(see 12/88)	\$10.95
AW-013	Snyder: In Search of Amazing Thing	(see 6/88)	\$10.95
IB-001	Weishaar: Your Best Interest	(see 6/88)	\$9.95
WG-001	White: Graphic Design for the Electronic Age		\$24.95

### AppleWorks Books

SY-008	Ericson: AppleWorks, Tips and Techs	(see 6/88)	\$19.95
DS-003	disk for this book	(see 6/88)	\$12.00
SY-007	Tymes: Mastering AppleWorks	(see 6/88)	\$21.95
MB-010	Matthews: AppleWorks Made Easy	(see 7/88)	\$18.95
CE-001	Thomas: ClassWorks	(see 8/88)	\$45.00
AW-027	Brown: Using AppleWorks GS		\$19.95

### Science/Electronics Books

TB-001	Engelsher: Interfacing & Digital Exps	(see 6/88)	\$15.50
VS-001	Vernier: Build a Better Mousetrap	(see 7/88)	\$24.95
TB-003	Pellino et al: Science On Your Apple	(see 6/88)	\$14.95
TB-004	Horn: Smart Apples	(see 6/88)	\$12.95

### Printers

#### Technical References

CP-001	East: Handbook of Printer Commands (3 vols)		\$89.95
AW-008	Apple: ImageWriter II Technical Reference		\$19.95
AW-025	Apple: ImageWriter LQ Technical Reference		\$22.95

#### PostScript

AW-007	Adobe: PostScript Lang Tutorial/Cookbook		\$16.95
AW-005	Adobe: PostScript Lang Program Design		\$22.95
AW-009	Adobe: PostScript Lang Reference Manual		\$22.95
AW-028	Apple: LaserWriter Reference		\$19.95
AW-029	Roth: Real World PostScript		\$22.95

#### Troubleshooting and Repair

HS-004	SAMS Computerfacts: ImageWriter I		\$24.95
HS-008	SAMS Computerfacts: ImageWriter II		\$24.95

### Working with Classic Apples

#### Applesoft

AW-010	Apple: Applesoft Tutorial (w/disk)		\$29.95
AW-021	Apple: Applesoft Programmer's Reference		\$22.95
SF-001	Miller: Mastering Applesoft Graphics	(see 6/89)	\$18.95
AW-015	Dwyer: BASIC and the Personal Computer		\$16.95
MB-002	Poole: II-Plus/IIc User's Guide, 3rd Ed		\$18.95
MB-003	Poole: IIc User's Guide		\$18.95
HS-007	Irwin: Apple Programmer's Handbook		\$22.95

#### DOS 3.3

TB-007	Weishaar/Kersey: The DOSTalk Scrapbook		\$14.95
DS-001	disk for this book		\$10.00

#### ProDOS 8

AW-024	Apple: BASIC Programming with ProDOS (w/disk)		\$29.95
AW-023	Apple: ProDOS 8 Tech Ref (w/disk)		\$29.95
QS-001	Worth: Beneath Apple ProDOS	(see 8/88)	\$19.95
TB-006	Doms/Weishaar: ProDOS Inside and Out	(see 6/88)	\$16.95
DS-002	disk for this book		\$10.00

#### 6502 Assembly Language

AW-012	Finley/Myers: Asm Lang for Applesoft Prgmmer		\$18.95
RW-001	Wagner: Assembly Lines: The Book	(see 6/88)	\$19.95
DS-004	disk for this book		\$15.95
MB-007	Leventhal: 6502 Asmly Lang Prog.		\$19.95
MB-008	Leventhal: 6502 Subroutines		\$19.95

#### Technical References

AW-003	Apple: Apple IIc Technical Reference		\$24.95
AW-004	Apple: Apple IIc Technical Reference		\$24.95
SS-001	Little: Inside the Apple IIc		\$19.95
SY-003	Campbell: The RS-232 Solution	(see 6/88)	\$18.95

#### Troubleshooting and Repair

HS-001	SAMS Computerfacts: II, II-Plus		\$24.95
HS-002	SAMS Computerfacts: IIc		\$24.95
HS-005	SAMS Computerfacts: IIc		\$39.95
HS-003	SAMS Computerfacts: Disk II		\$24.95
HS-006	Brenner: Apple II Troubleshooting/Repair Guide		\$19.95

### Working with the Apple IIgs

#### Toolbox Programming

AW-011	Apple: Programmer's Intro to IIgs (w/disk)		\$32.95
AW-019	Apple: Apple IIgs Toolbox Reference, Vol 1		\$26.95
AW-006	Apple: Apple IIgs Toolbox Reference, Vol 2		\$26.95
CB-005	Gookin/Davis: Mastering the IIgs Toolbox		\$19.95
CB-007	Gookin/Davis: Adv Prog Tech for IIgs Toolbox		\$19.95

#### GS/OS, ProDOS 16

AW-020	Apple: ProDOS 16 Reference (w/disk)		\$29.95
AW-026	Little: Exploring Apple GS/OS and ProDOS 8		\$21.95
DS-006	disk for this book (3.5)		\$15.00

#### 65816 Assembly Language

CB-002	Wagner: IIgs Machine Lang for Beginners		\$19.95
DS-005	disk for this book (3.5)		\$15.95
SS-005	Lichty/Eyes: Programming the IIgs in Asm Lang		\$29.95
DS-008	disk for this book (3.5)		\$20.00
HS-010	Andrews: Prmg IIgs in C and Asm Lang		\$18.95
SS-003	Eyes/Lichty: Programming the 65816		\$24.95
BB-001	Scanlon: Apple IIgs Asm Lang Programming		\$24.95

#### Technical References

AW-018	Apple: Technical Introduction to the Apple IIgs		\$9.95
AW-022	Apple: Apple IIgs Firmware Reference		\$24.95
AW-002	Apple: Apple IIgs Hardware Reference		\$24.95
AW-001	Apple: Apple Numerics Reference (new edition)		\$29.95
AW-014	Apple: Human Interface Guidelines		\$14.95
AW-017	Little: Exploring the Apple IIgs	(see 6/88)	\$22.95
DS-007	disk for this book (3.5)		\$20.00
MB-001	Fischer: Apple IIgs Tech Ref	(see 6/88)	\$19.95